## NIH8005 sequence 11 APRIL REC' DPCT/PTO 09 AUG 2006 SEQUENCE LISTING

```
<110> Csaky, Karl G
       Ponce, Lourdes
       Kleinman, Hynda
<120>
       Therapeutic administration of the scrambled anti-angiogenic
       peptide C16Y
<130>
       41743.8005.US00
<160>
       13
<170>
       PatentIn version 3.2
<210>
<211>
       12
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Scrambled version of C16 peptide
<300>
<301>
       Ponce, M.L., Hibino, S., Lebioda, A.M., Mochizuki, M., Nomizu,
       M., Kleinman, H.K.
<302>
       Identification of a potent peptide antagonist to an active
       laminin-1 sequence that blocks angiogenesis and tumor growth
<303>
       Cancer Research
<304>
       63
<306>
       5060-5064
       2003-08-15
<307>
<313>
       (1)..(12)
<400> 1
Asp Phe Lys Leu Phe Ala Val Tyr Ile Lys Tyr Arg
<210>
<211>
       8
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Minimum active sequence of C16Y peptide
<300>
       Ponce, M.L., Hibino, S., Lebioda, A.M., Mochizuki, M., Nomizu,
<301>
       M., Kleinman, H.K.
<302>
       Identification of a potent peptide antagonist to an active
       laminin-1 sequence that blocks angiogenesis and tumor growth
<303>
       Cancer Research
<304>
       5060-5064
<306>
       2003-08-15
<307>
<313>
       (1)..(8)
<400>
Asp Phe Lys Leu Phe Ala Val Tyr
```

## NIH8005sequence listing.txt

```
<210>
       3
<211>
       9
<212>
       PRT
       Artificial
<213>
<220>
       9 AA active fragment of C16Y peptide
<223>
<400>
Asp Phe Lys Leu Phe Ala Val Tyr Ile
1 5
<210>
       4
<211>
       10
<212>
       PRT
<213>
       Artificial
<223>
       10 AA active fragment of C16Y peptide
<400>
Asp Phe Lys Leu Phe Ala Val Tyr Ile Lys
<210>
       5
<211>
<212>
       11
       PRT
<213> Artificial
<220>
<223>
       11 AA active fragment of C16Y peptide
<400>
Asp Phe Lys Leu Phe Ala Val Tyr Ile Lys Tyr
<210>
       6
       10
<211>
<212>
       PRT
       Caenorhabditis elegans
<300>
<301>
       C-elegans consortium
       Genome sequence of the nematode c. elegans: a platform for
       investigating biology
<303>
       Science (Wash. DC)
<304>
       282
       2012-2018
<306>
<307>
       1998
<313>
       (1)..(10)
<400>
Asp Tyr Lys Tyr Phe Ala Val Tyr Tyr Arg
                                         Page 2
```

## NIH8005sequence listing.txt

```
<210>
        7
        4
<211>
<212>
        PRT
        Mus musculus
<213>
<300>
        Nomizu, M., Yokoyama, F., Suzuki, N., Okazaki, I., Nishi, N.,
<301>
        Ponce, L.P., Kleinman, H.K., Yamamoto, Y., Nakagawa, S., Mayumi,
<302>
        Identification of homologous biologically active sites on the
        N-terminal domain of laminin a chains
<303>
        Biochemistry
<304>
        40
        15310-15317
<306>
<307>
        2001
<313>
        (1)..(4)
<400>
Val Ala Tyr Ile
<210>
        8
<211>
        4
<212>
        PRT
<213>
        Mus musculus
<300>
        Nomizu, M., Kuratomi, Y., Song, S.Y., Ponce, M.L., Hoffman, M.P., Powell, S.K., Miyoshi, K., Otaka, A., Kleinman, H.K., Yamada, Y. Identification of cell binding sequences in mouse laminin y-1 chain by systematic peptide screening
<301>
<302>
<303>
        Journal of Biological Chemistry
<304>
        272
        32198-32205
<306>
        1997
<307>
        (1)..(4)
<313>
<400>
Tyr Val Arg Leu
        9
<210>
<211>
        5
<212>
        PRT
        Mus musculus
<213>
<300>
        Grant, D.S., Tashiro, K., Segui-Real, B., Yamada, Y., Martin,
<301>
        G.R., Kleinman, H.K.
        Two different laminin domains mediate the differentiation of
<302>
        human endothelial cells into capillary-like structures in vitro
<303>
        Cell
<304>
        58
        933-943
<306>
        1989
<307>
<313>
        (1)..(5)
```

```
NIH8005sequence listing.txt
<300>
       Iwamoto, Y., Robey, F.A., Graf, J., Sasaki, M., Kleinman, H.K.,
<301>
       Yamada, Y., Martin, G.R.
<302>
       YIGSR a pentapeptide from the B1 chain of laminin inhibits tumor
       cell metastases
       Science (Wash. DC)
<303>
       238
<304>
       1132-1134
<306>
       1987
<307>
<313>
       (1)..(5)
<400>
Tyr Ile Gly Ser Arg
<210>
       10
<211>
       12
<212>
       PRT
       Artificial
<213>
<220>
<223>
       Scrambled version of C16 peptide
<300>
       Ponce, M.L., Nomizu, M., Kleinman, H.K.
An angiogenic laminin site and its antagonist bind through the
<301>
<302>
       avß3 and a5ß1 integrins
<303>
       FASEB J
<304>
       15
<306>
       1389-1397
       2001-06
<307>
<313>
       (1)..(12)
<400>
       10
Lys Ala Phe Asp Ile Thr Tyr Val Arg Leu Lys Phe
<210>
       11
<211>
       12
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Scrambled version of C16 peptide
<300>
       Ponce, M.L., Hibino, S., Lebioda, A.M., Mochizuki, M., Nomizu, M., Kleinman, H.K.
<301>
       Identification of a potent peptide antagonist to an active
<302>
       laminin-1 sequence that blocks angiogenesis and tumor growth
<303>
       Cancer Research
<304>
       63
<306>
       5060-5064
       2003-08-15
<307>
<313>
       (1)..(12)
<400>
       11
Ile Lys Asp Tyr Leu Thr Phe Ala Arg Val Lys Phe
                                           Page 4
```

<212>

<213>

<400>

PRT

13

Mus musculus

Lys Ala Phe Asp Ile Thr Tyr Val Arg Leu Lys Phe  $1 \hspace{1cm} 5 \hspace{1cm} 10$